



IS&R:

 **BRS:**

⌚ Pending

 Active

• L1: (5460) underground and mining

-L2: (47) 1 and "loop antenna"

---L3: (21) 2 and modulator

-L4: (3) 3 and "faraday coupling"

Q L5: (7) 1 and (SSB or "single sideband")

L6: (3) 5 and "faraday coupling"

• L7: (1738) 455/40 455/41.1 455/203 455/560 455/557 455/550.1

...L8: (3) 7 and "single sideband".clm.

...L9: (0) 8 and "faraday coupling".clm.

-L10: (2) 8 and "comb filter".clm.

-L11: (5) 7 and "loop antenna".cln.

-L12: (2) 11 and modulator.cln.

L13: (0) 12 and "faraday coupling".clm.

Failed

  Saved

— S2: (1) ("4656463").PN.

→ S3: (0) S2 and "magnetic flux"

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DBs | US-PGPUB; USPAT; EPO

☒ Plurals

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12 and "faraday coupling".clm.

 BRS form
  IS&R form
  Image
  Text
  HTML

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 Hits
 Details
 HTML

Ready

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IS&R:

⊖ Pending

 Active

- ☛ L1: (5460) underground and mining
- ☛ L2: (47) 1 and "loop antenna"
- ☛ L3: (21) 2 and modulator
- ☛ L4: (3) 3 and "faraday coupling"
- ☛ L5: (7) 1 and (SSB or "single sideband")
- ☛ L6: (3) 5 and "faraday coupling"

Failed

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- ☛ S2: (1) ("4656463").PN.
- ☛ S3: (0) S2 and "magnetic flux"
- ☛ S4: (1) S2 and capacitor
- ☛ S5: (0) S2 and flux
- ☛ S6: (1) S2 and magnetic
- ☛ S7: (1) S6 and amplifier
- ☛ S8: (1) S7 and modulator
- ☛ S9: (0) S8 and (reduc\$3 near3 impedance)
- ☛ S10: (1) S8 and impedance
- ☛ S11: (1) S10 and antenna
- ☛ S12: (1) S11 and filter

<p>(22) United States Patent McKusick et al.</p>	<p>(51) Patent No.: US 6,370,396 B1 (52) Date of Patent: Apr. 9, 2002</p>
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<p>(54) FACILITY-WIDE COMMUNICATION SYSTEM AND METHOD</p> <p>(75) Inventor: E. H. McKusick, Jr., David Peters, Robert A. Kilgore, all of Pittsburgh, PA (US)</p> <p>(73) Assignee: Ducommun, Inc., Pittsburgh, PA (US)</p> <p>(*) Notice: Subject to any disclaimer, the rest of this patent is disclaimed or assigned under 35 U.S.C. 105(b) to 4 steps.</p> <p>(21) Appl. No.: 09/75,737</p> <p>(22) Filed: May 25, 2000</p> <p>Related U.S. Application Data</p> <p>(39) Pending application No. 09/131,766, filed on Mar. 28, 1999</p> <p>(31) Int. Cl.⁷: H04B 1/38 (2006.01)</p> <p>(32) U.S. Cl.: 455/228, 455/237, 455/241</p> <p>(50) Field of Search: 455/241, 234, 455/237, 241</p> <p>(52) References Cited</p> <p>U.S. PATENT DOCUMENTS</p> <p>4,682,305 A * 1/1994 Brown et al.</p> <p>4,942,000 A * 12/1996 Brown et al.</p>	<p>6,312,818 A * 5/1999 Hylton et al.</p> <p>6,312,819 A * 5/1999 Hylton et al.</p> <p>6,312,820 A * 5/1999 Hylton et al.</p> <p>* cited by examiner</p> <p>Primary Examiner—Donald Thomas</p> <p>Assistant Examiner—Thomas T. Pappas</p> <p>(74) Attorney, Agent, or Firm—Kilgore & McKusick</p> <p>(57) ABSTRACT</p> <p>A method and system for communication within a single transmission-based communication system (e.g., a radio system) and the like are disclosed herein with such that same enable the use to work communications are located in a wide range of at least one of the RF transmitters. At each location RF transmitters are connected to a central unit. The central unit provides power to the transmitters and transmits data to the transmitters. The central unit may be connected to each other using standard network type (cable) or wireless type and may be connected to a central unit using the network connection. The central unit may also be connected to a central unit using a standard network type (cable) or wireless type and may be connected to a central unit using the network connection. The transmitters of the present invention utilize high speed modulation to enable wide area digital signals. The transmitters are distributed and located in a wide area of the transmission system. The system may be used with a central unit.</p>
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23 Claims, 47 Drawing Sheets

BRS form
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 Image
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	U	1	Document ID	Issue Date	Pages	Title	Current OR	Current	Ret	Inventor
1	<input type="checkbox"/>	<input type="checkbox"/>	US 20020098868 A1	20020725	34	Through-the-earth communication system	455/560	455/561		Meiksin, Zvi H. et al.
2	<input type="checkbox"/>	<input type="checkbox"/>	US 20020098867 A1	20020725	34	Powerline communication system	455/560	455/402		Meiksin, Zvi H. et al.
3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 6370396 B1	20020409	31	Facility-wide communication system and method	455/560	455/557; 455/561		Meiksin, Zvi H. et al.



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Default operator: OR ☐ Highlight all hit terms initially

3 and "faraday coupling"

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11